Qty:

: 206B FLOAT STEP ASSY, RH

: D284**2**042

: N/A

Alu:

: 1/30/2006

: B

: D2841 REV B

Lower Soul write

Each

2 Um:

16.00.02.6=2

Wednesday, 1/11/2006 4:11:02 PM

User:

Kim Johnston

**Process Sheet** 

**Drawing Name** 

Part Number

Material

**Due Date** 

**Drawing Number** 

**Project Number** 

**Drawing Revision** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 23321A

**Estimate Number** 

: 11663

P.O. Number

First Issue

Written By

Comment

**Previous Run** 

AIM:

: 1/11/2006 This Issue : NC Prsht Rev.

**Checked & Approved By** 

S.O. No. : NA

: NIA : 25435A : LARGE FAB ASSY

As Per Ecn 766 06-01-06 JLM

COMMENT BELOW ABOUE NATE & USER

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

: Est Rev:D

Description:

1.0

D2622120C



Comment: Qty.:

1.0000 Each(s)/Unit

Qty 1

Part# D2622-120C Extrusion

Total: 2.0000 Each(s) Description

B24092

Extrusion

Check Material for any Dents or Defects

LARGE FABRICATION RESOURCE 1

2.0

LARGE FAB 1



Comment: LARGE FABRICATION RESOURCE 1

1-Cut D2842-2 using D2622 extrusion as per Dwg D2841

2-Drill extrusion per drawing D2842 using Jig DT 8265

3-Deburr and bevel ends for welding

AE 06.02.7 = 2

3.0

D2734

206 Step Endplate



Comment: Qty.:

2.0000 Each(s)/Unit

Total:

4.0000 Each(s)

206 Step Endplate

Pick:

Qty

Part Number

Description

Batch

2

D2734

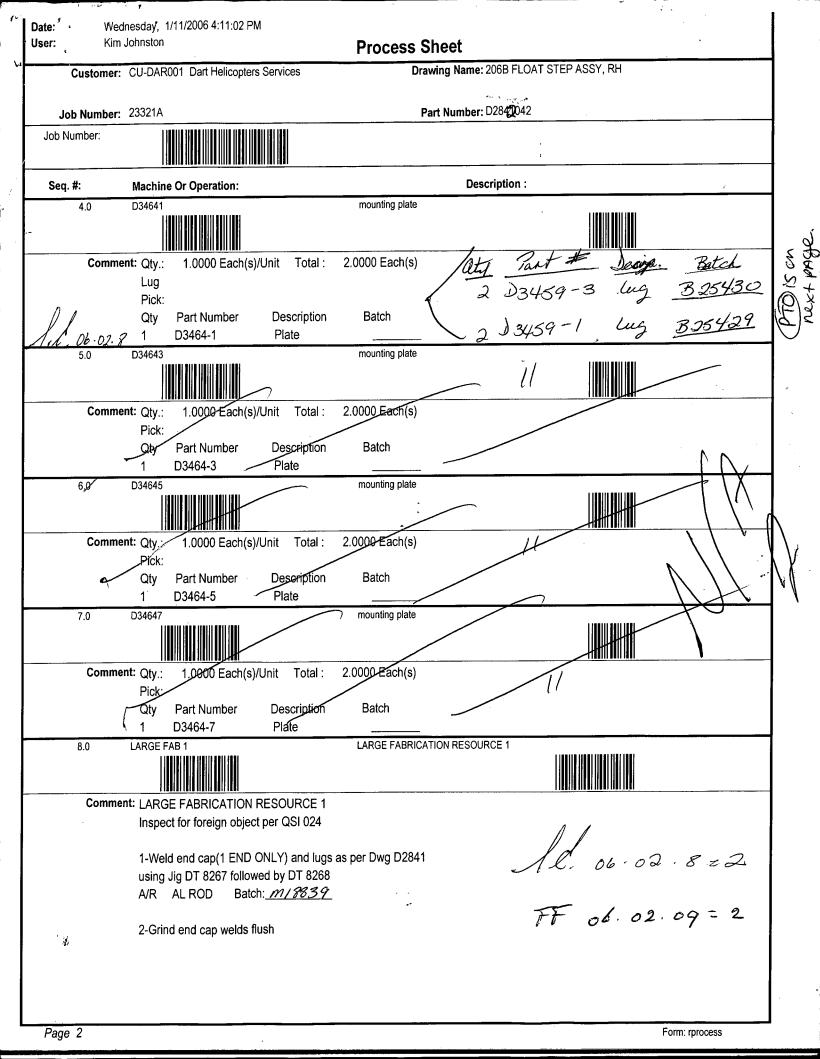
End Cap

B20459

16.06.02.3=2

W/O:		WO	RK ORDER CHANGES	S				
DATE	STEP	PROCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						···		
Part No	):	PAR #: Fault Categ	ory:	NCR: Yes	No DQ	<b>A</b> :	_ Date: _	

					QA: N/	C Closed:	Date: _	
NCR:			WORK ORD	DER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
				•				
				· · · · · · · · · · · · · · · · · · ·				
		-						



W/O:		WORK ORDE	RCHANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·#					
			A				

Part No: _	PAR #: _	Fault Category:	NCR: Yes No DQA:	Date:
			QA: N/C Closed:	Date:

	NCR:			WORK ORDI	ER NON-CONFORMANC	E (NCR)			•
ŀ			Description of NC		Corrective Action Section B		Verification	Annroyal	Annroyal
	DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
1									

Date: ' · Wednesday, 1/11/2006 4:11:02 PM User: Kim Johnston **Process Sheet** Drawing Name: 206B FLOAT STEP ASSY, RH Customer: CU-DAR001 Dart Helicopters Services Part Number: D2842042 Job Number: 23321A Job Number: Description: **Machine Or Operation:** Seq. #: WELD INSPECTION QC5/9 9.0 Comment: WELD INSPECTION HAND FINISHING RESOURCE # 10.0 HAND FINISHING Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 11.0 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION LARGE FABRICATION RESOURCE 1 12.0 Comment: LARGE FABRICATION RESOURCE 1 1-Inspect for foreign object per QSI 024 2-Weld Remainig end cap as per Dwg D2841 using Jig DT 8267 followed by DT 8268 Batch: 32075723 A/R AL ROD 13.0 QC5/9 Comment: WELD INSPECTION POWDER COATING 14.0 POWDER COATING Comment: POWDER COATING Touch up Alodine & Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSIO 15.0 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION [Complete W/O on Attate

## **Dart Aerospace Ltd**

W/O:	•	WORK ORDER CHAN	GES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
06.02.27	9	- change has been made.	Const.	A.		U 060-77	
06.05.03	ک	-MACE CHANGE TO DRAWING DRILL HOLE TO SIZE SE' (3 PLACES) INSTEAD OF 'Q'	06.0203			B 60306	16-53-08

Part No: D841-042. PAR #: NA Fault Category: PRAJER ASS' NCR: Yes No DQA:

Date: 05/03/15

QA: N/C Closed: 4 Date: 06,03,15

NCR:	23	321 W	ORK OR	DER NON-CONFORMANCE	(NCR)		FA	
		Description of NC		Corrective Action Section B		Verification	Approval	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
06 02.22	8	Ends of steps are bent in- words A little owe to welding on the logs to fast, and heat solled the ends of the steps in.	#	- weld I lug At A time And let parts cool between welds. Steps are Acceptable.	Sk	1	-#	
			doorn	Sée Attnicled 6-may	06.02.27	06.0.22	06.01.10	06.02.22
x 01.22	2	Holes drilled on both sides of steps. Holes on 4 to be on one side.	#	grind flush as per QSI	la			
,		on 4 to be on one side.	06 52 N	See Atlatdec/ E-mail	06.02.77	Pos 02.25	06.02.22	
		*						

Date: Wednesday, 1/11/2006 4:11:02 PM User: Kim Johnston **Process Sheet** Drawing Name: 206B FLOAT STEP ASSY, RH Customer: CU-DAR001 Dart Helicopters Services Part Number: D2841042 Job Number: 23321A Job Number: Seq. #: Description: Machine Or Operation: 16.0 NAS1329C3KB130 insert Comment: Qty.: 4.0000 Each(s)/Unit Total: 8.0000 Each(s) Insert Pick: Description Batch Qty Part Number NAS1329C3KB130thsert 17.0 MS27039C107 screw 8-0000 Each(s) 4.0000 Each(s)/Unit Total: Comment: Qty.: Pick: Qty Part Number Description Batch MS27039C1-07 Screw WASHER 18.0 4:0000 Each(s)/Unit Total: 8.0000 Each(s) Comment: Qty.: Qty Part Number **Description Batch** NAS1515H3L WASHER 19.0 AN960C10L washer Total: 8.0000 Each(s) Qty Part Number Description Batch AN960C10L WASHER HAND FINISHING1 HAND FINISHING RESOURCE #1 20.0 Comment: LARGE FABRICATION RESOURCE 1 1-Install inserts as per Dwg D2842 2-Wing Walk as per Dwg D2842 and QSI 005 4.1 Batch: M 1003 06-03-08

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHA	NGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						<u> </u>	
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	

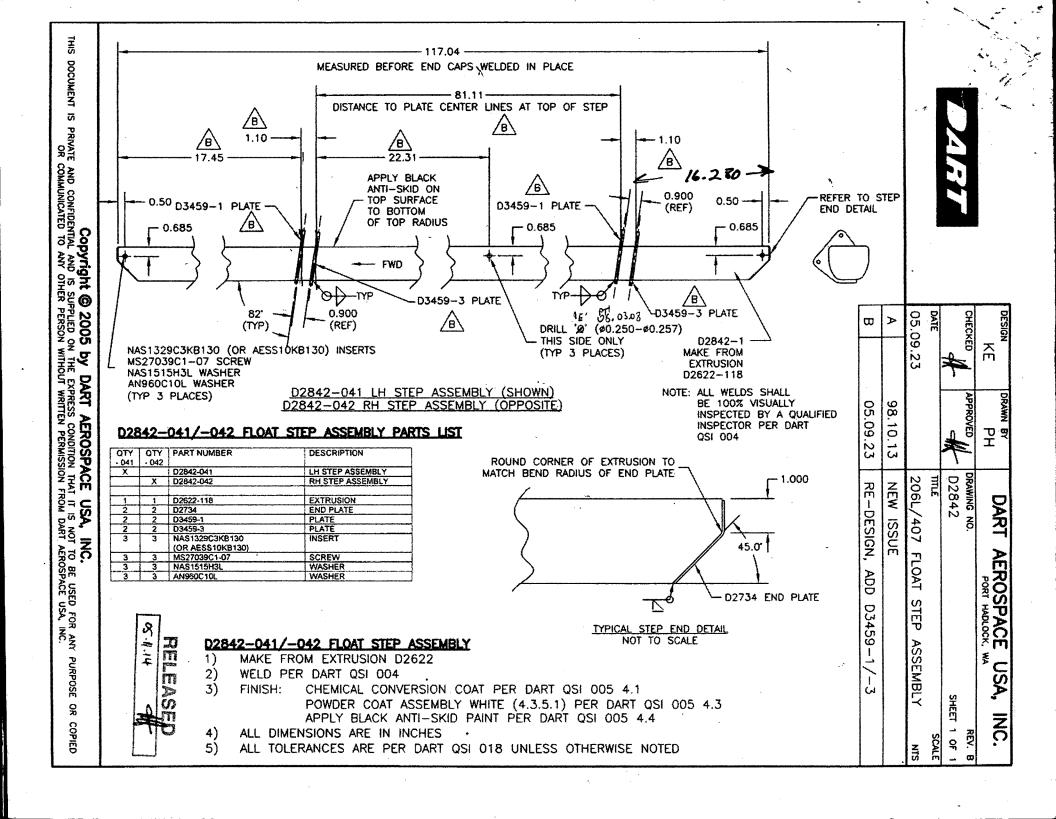
QA: N/C Closed: \_\_\_\_ Date: \_\_\_

	· · · · · · · · · · · · · · · · · · ·	WORK ORDER NON-CONFORMANCE (NCR)					
	Description of NC		Corrective Action Section E	3	Verification	Annroval	Annroval
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
							,
					·		
	STEP	Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Section A Initial Action Description Sign & Section C	STEP Description of NC Corrective Action Section B Verification Approval Section A Chief Eng

Date: Wednesday, 1/11/2006 4:11:02 PM User: Kim Johnston **Process Sheet** Drawing Name: 206B FLOAT STEP ASSY, RH Customer: CU-DAR001 Dart Helicopters Services Part Number: D2841042 Job Number: 23321A Job Number: Description: Seq. #: **Machine Or Operation:** INSPECT WORK TO CURRENT STEP QC5 21.0 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 22.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock C206103110 Location:\_\_\_ DOCUMENT CONTROL 23.0 Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Dart Aer	ospace Ltd
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Dart Ae	rospace	Ltd							
<b>W</b> /O:	* **		W	ORK ORDER CHANGE	S				
DATE	STEP	PROC	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
*		,							
				,,					
						<b>~</b> `			
Part No	·:	PAR #:	Fault Cate	Fault Category: NCI		R: Yes No DQA: Date			
			,					Date:	
		\W(	JDK UDD	ER NON-CONFORMAN		` `		_ Date	
NCR:	,				ICE (NCR	)		*	
DATE	STEP	Description of NC Section A	Corrective Action Section B Initial Action Description		B Sign &	Verification			Approval
			Chief Eng	Action Description Chief Eng	Date	Sectio	n C	Chief Eng	QC Inspector
		•	·				·		
		·					1		
		/							
·-			•				<del></del>		
							:		
							-		



## **Jason Murdoch**

From:

David Shepherd [davids@dartaero.com]

Sent:

February 22, 2006 11:05 AM

To:

Jason Murdoch

Subject:

Re: new 206 step welding

The steps that bent during welding are acceptable. With respect to the #30 holes that were drilled on the wrong side of the step, fill them with weld per QSI 004 and grind flush.

David

> >

```
---- Original Message -----
From: "Jason Murdoch" <jmurdoch@dartaero.com>
To: "'David Shepherd'" <davids@dartaero.com>
Sent: Wednesday, February 22, 2006 8:35 AM
Subject: RE: new 206 step welding
> Hi. Are these float steps acceptable from what you saw as is? Next time we
> will weld them with not so much heat in one location. One lug plate at a
> time. Also is it ok to fill the holes that were drilled on the opposite
side
> and grind flush? The holes are #30 luckily so they are tiny to fill in.
> jmurdoch@dartaero.com
> Q.C.Inspector
> ----Original Message----
> From: David Shepherd [mailto:davids@dartaero.com]
> Sent: February 15, 2006 3:17 AM
> To: Peter Hum
> Cc: Jason Murdoch (E-mail); Bill Beckett
> Subject: Re: new 206 step welding
> Peter,
> Your 206 step design is very similar to the 119 design and we don't have
> this problem on 119 that I know of.
> I would compare the 206 step welding fixture to the 119 welding fixture.
> it possible that the 206 jig isn't restricting the step
> from moving on you? Does the welder have to move around from front to
back?
>
> David
>
>
> ---- Original Message -----
> From: "Peter Hum" <phum@dartaero.com>
> To: "David Shepherd (E-mail)" <davids@dartaero.com>
> Cc: "Jason Murdoch (E-mail)" <jmurdoch@dartaero.com>
> Sent: Tuesday, February 14, 2006 6:06 AM
> Subject: new 206 step welding
>
>
> > Hi David,
> >
> > In welding the new 206 step lugs, there has been some bending of the
> > due the heat of the weld. Between the lugs the step is straight. Between
> the
> > lugs and the ends (short distance), the step bends as shown in the
> picture.
> >
> > What should we do?
```

```
> > 1) Is it allowable to reheat the step in order to bend the step into a
> > straight postion?
> > 2) Leave as is?
> > 3) Scrap and rethink weld technique?
> >
> > Thanks
> > Peter
> >
> >
> >
> >
```

Qty:

2 Um:

Each

: 206B FLOAT STEP ASSY, RH

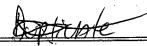
: D2842042

: 1/30/2006

: N/A

: B

: D2842 REV B



**Drawing Name** 

**Part Number** 

Material

**Due Date** 

Description:

**Drawing Number** 

**Project Number** 

**Drawing Revision** 

Date: User: Monday, 2/27/2006 10:23:28 AM

Linda Lacelle

## **Process Sheet**

Customer

: CU-DAR001 Dart Helicopters Services

S.O. No. :

Type

**Job Number** 

: 23321A

**Estimate Number** 

: 11663

P.O. Number This Issue

: 2/27/2006

: NC

Prsht Rev. : 1/11/2006 First Issue

: 25435A

**Previous Run** 

Written By

Checked & Approved By

Comment

: LARGE FAB ASSY

: Est Rev:D As Per Ecn 766 06-01-06 JLM

**Additional Product** 

Job Number:

Seq. #:

**Machine Or Operation:** 

Extrusion

1.0

D2622120C

Qty

1

Comment: Qty.:

1.0000 Each(s)/Unit Total:

Part# Description

D2622-120C Extrusion

Batch:

2.0000 Each(s)

Check Material for any Dents or Defects

2.0

LARGE FAB 1

LARGE FABRICATION RESOURCE 1



**Comment:** LARGE FABRICATION RESOURCE 1

1-Cut D2842-2 using D2622 extrusion as per Dwg D2841

2-Drill extrusion per drawing D2842 using Jig DT 8265

3-Deburr and bevel ends for welding

3.0

D2734

206 Step Endplate



Comment: Qty.:

2.0000 Each(s)/Unit Total:

4.0000 Each(s)

206 Step Endplate

Pick:

Qty

2

Part Number

Description

End Cap

D2734

Batch

Monday, 2/27/2006 10:23:28 AM Date: Linda Lacelle User: **Process Sheet** Drawing Name: 206B FLOAT STEP ASSY, RH Customer: CU-DAR001 Dart Helicopters Services Part Number: D2842042 Job Number: 23321A Job Number: Seq. #: Description: **Machine Or Operation:** D34641 mounting plate 4.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Lug Pick: Part Number Description Batch Qty D3464-1 Plate D34643 5.0 mounting plate Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Pick: Description Batch Qty Part Number D3464-3 Plate 1 D34645 6.0 mounting plate Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Pick: Qty Part Number Description Batch D3464-5 Plate 7.0 D34647 mounting plate Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Pick: Description Batch Qty Part Number Plate 1 D3464-7 LARGE FABRICATION RESOURCE 1 8.0 LARGE FAB 1 Comment: LARGE FABRICATION RESOURCE 1 Inspect for foreign object per QSI 024 1-Weld end cap(1 END ONLY) and lugs as per Dwg D2841 using Jig DT 8267 followed by DT 8268 A/R AL ROD Batch:\_ 2-Grind end cap welds flush

ć Date:

Monday, 2/27/2006 10:23:28 AM

User:

Linda Lacelle

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206B FLOAT STEP ASSY, RH

Job Number: 23321A

Part Number: D2842042

Job Number:



Seq. #:

**Machine Or Operation:** 

**Description:** 

9.0

QC5/9

WELD INSPECTION

**Process Sheet** 



Comment: WELD INSPECTION

10.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

11.0

12.0

13.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION







LARGE FABRICATION RESOURCE 1



Comment: LARGE FABRICATION RESOURCE 1

1-Inspect for foreign object per QSI 024

2-Weld Remainig end cap as per Dwg D2841 using Jig DT 8267 followed by DT 8268 AL ROD

A/R

QC5/9

Batch:



WELD INSPECTION



**Comment: WELD INSPECTION** 

POWDER COATING 14.0



POWDER COATING



**Comment: POWDER COATING** 

Touch up Alodine & Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

15.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION



Date:

Monday, 2/27/2006 10:23:28 AM

User:

Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206B FLOAT STEP ASSY, RH

Job Number: 23321A

Part Number: D2842042

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

21.0

QC5

INSPECT WORK TO CURRENT STEP





Comment: INSPECT WORK TO CURRENT STEP

22.0 PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: \_\_\_\_/

C Lde/03/10



23.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion

